

The invention proposes a method and a unit for controlling the flow of at least one TCP connection between a sender and a receiver. The method is of the type which consists in controlling, at the level of a given multiplexing node through which TCP segments relevant to the connection pass, a window size parameter contained in acknowledgement segments sent back by the receiver. The method comprises the steps of:

- a) receiving an acknowledgement from the receiver on the up link (receiver to sender) of the connection at the level of said given multiplexing node;
- b) controlling a window size parameter contained in said acknowledgement segment on the basis of the difference between, firstly, a first context value associated with the TCP connection, defined as being the sequence number of the last segment that was transmitted from said given multiplexing node on the down link (sender to receiver) of the connection, to which the length of said segment is added, and, secondly, the sequence number indicated in said acknowledgement segment;
- c) transmitting the acknowledgement segment to the sender on the up link of the connection from said multiplexing node with the window size parameter thus controlled.